

DATA: Please Scan & Mail.

Walled Dec 5 13:19:39 2007

181	MLTLEAERGGDPGRGSQDALLWALPERCEPSNSPPGRGRPWHVESETALTRIG	240
241	TGIDIQGGSQSLIPPHREYSAAHAESTGERFARHTVHTGMIGWTHCKMSKSRGHLV	300
241	TGIDIQGGSQSLIPPHREYSAAHAESTGERFARHTVHTGMIGWTHCKMSKSRGHLV	300
301	SOLRQGYDPSAIRLGLPSGHYREDRFSNEVLDENANVLAERWSRATLPEAPDADTVIA	360
301	SOLRQGYDPSAIRLGLPSGHYREDRFSNEVLDENANVLAERWSRATLPEAPDADTVIA	360
361	RVRQYLAADDLTPKXALALDGWCTDALSFGHTESPRLVATVDAIIGVDL	412
361	RVRQYLAADDLTPKXALALDGWCTDALSFGHTESPRLVATVDAIIGVDL	412
361	RVRQYLAADDLTPKXALALDGWCTDALSFGHTESPRLVATVDAIIGVDL	412
RESULT 2		
IS-10-934-893-3251		
Sequence 3251, Application US/10934893		
Publication No. US20070042333A1		
GENERAL INFORMATION:		
APPLICANT: Kapoor, Vivek, Bannantine, John P., Li, Ling-Ling, Zhang, Qing, an		
APPLICANT: Kapoor, Vivek, Bannantine, John P., Li, Ling-Ling, Zhang, Qing, an		
TITLE OF INVENTION: Mycobacterial Diagnostics		
FILE REFERENCE: 09331/11/002		
CURRENT APPLICATION NUMBER: US/10/934,893		
CURRENT FILING DATE: 2004-09-03		
PRIORITY APPLICATION NUMBER: PCT/IB2003/006509		
PRIORITY FILING DATE: 2003-03-06		
PRIORITY FILING DATE: 2002-04-30		
PRIORITY FILING DATE: 2002-03-06		
PRIORITY FILING DATE: 2002-03-06		
NUMBER OF SEQ ID NOS: 589		
SOFTWARE: FastSEQ for Windows Version 4.0		
SEQ ID NO: 3251		
LENGTH: 415		
TYPE: PRT		
ORGANISM: Mycobacterium paratuberculosis		
US-10-934-893-3251		
Query Match Score 1808.5; DB 5; Length 415;		
Best Local Similarity 79.6%; Pred. No. 8.5e-164; Gaps 2		
Matches 331; Conservative 38; Mismatches 42; Indels 8		
Qy 1 MWSAPAPIVPVGRGPALRFLPDSADQRQVRPYT---PGPATMTRYCGITPYDATHLGHA		
Db 1 MWSSSPQVPLQFGRGPFLRFLYTSQDRQVRPAAGAQPGRPSAATMTCGITPYDATHLGHA		
Qy 57 ATYLTDPLYHRLWLDAGHTVQYQNTVDPPFLERAERDGIWRTLGDREQLQFREDMA		
Qy 57 ATYLTDPLYHRLWLDAGHTVQYQNTVDPPFLERAERDGIWRTLGDREQLQFREDMA		
Db 61 ATYLAFDLYRQWLDLGHDVHYQNTVDPPFLERAERDGIWRTLGDVWRLAERETYSFLRDEMA		
Qy 117 ALRVLPHDXYAATDAIAEVYEVKLLASGAATIVDEKPYFRADATAQFGYESGY		
Qy 117 ALRVLPHDXYAATDAIAEVYEVKLLASGAATIVDEKPYFRADATAQFGYESGY		
Db 121 ALRILAPRDYVGAATADVYEVKMLASGAAYV-DGEPDPLXYRADATLQFGYESGY		
Db 121 ALRILAPRDYVGAATADVYEVKMLASGAAYV-DGEPDPLXYRADATLQFGYESGY		
Qy 177 DRDTMLTFLERGGDDPRGSKSDQDALLWALPERCEPSNSPPGRGRPWHCAATL		
Qy 177 DRDTMLTFLERGGDDPRGSKSDQDALLWALPERCEPSNSPPGRGRPWHCAATL		
Db 180 DRETMUFLAERGGDQRPKTDALDALLWALPERCEPSNSPPGRGRPWHCAATL		
Db 180 DRETMUFLAERGGDQRPKTDALDALLWALPERCEPSNSPPGRGRPWHCAATL		
Qy 237 TRIGTGLDIOGCGSDLIIFPHHYESAHAEESTGERFARHTGMIGDCHKMSKRSRN		
Qy 237 TRIGTGLDIOGCGSDLIIFPHHYESAHAEESTGERFARHTGMIGDCHKMSKRSRN		
Db 240 SRIGSGLQDQGCSDLIFPAAHEFTAHAEYCERGERFARHTGMIGDCHKMSKRSRN		
Db 240 SRIGSGLQDQGCSDLIFPAAHEFTAHAEYCERGERFARHTGMIGDCHKMSKRSRN		
Qy 297 LVLSQLRAQGDPSAARLGLPSGHYEDRFSNEVLDENANVLAERWSRATLPEAPDAT		
Qy 297 LVLSQLRAQGDPSAARLGLPSGHYEDRFSNEVLDENANVLAERWSRATLPEAPDAT		
Db 300 LVLSQLRGYDVEPAATRGLLAGHYCDRYSQDVLDEATRLRRTATLPAQGPDAT		
Db 300 LVLSQLRGYDVEPAATRGLLAGHYCDRYSQDVLDEATRLRRTATLPAQGPDAT		
Qy 357 DVIARVROYLADDLTDTPKALALDGMCTDALSFGHTESPRLVATVDAIIGVDL		
Qy 357 DVIARVROYLADDLTDTPKALALDGMCTDALSFGHTESPRLVATVDAIIGVDL		
Db 360 DVIARVROYLADDLTDTPKALALDGMCTDALSFGHTESPRLVATVDAIIGVDL		
Db 360 DVIARVROYLADDLTDTPKALALDGMCTDALSFGHTESPRLVATVDAIIGVDL		

APPLICANT: Kroger, Burkhard
APPLICANT: Schroder, Hartwig
APPLICANT: Zehnder, Oskar
APPLICANT: Haberhauer, Gregor
TITLE OF INVENTION: CORNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS INVOLVED IN GENETIC STABILITY, GENE EXPRESSION AND PROTEIN SECRETION AND FOLDING
FILE REFERENCE: BGT-1127CP
CURRENT APPLICATION NUMBER: US/11/041,504
CURRENT FILING DATE: 2005-01-21
PRIOR APPLICATION NUMBER: US/09/602,839
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: 60/141031
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: 60/143752
PRIOR FILING DATE: 1999-07-14
PRIOR APPLICATION NUMBER: 60/151671
PRIOR FILING DATE: 1999-08-08
PRIOR APPLICATION NUMBER: DE 19931412.8
PRIOR FILING DATE: 1999-07-08
PRIOR APPLICATION NUMBER: DE 19932928.1
PRIOR FILING DATE: 1999-07-14
NUMBER OF SEQ ID NOS: 618

SEQ ID NO: 288
LENGTH: 420
TYPE: PRT
ORGANISM: *Corynebacterium glutamicum*
-11-041-504-288

176 YDRDTMLTLFAERGGDPDRGPKSDQDALLWRAERGPSPWSPGRRGWMHVECSAII
177 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
179 YDAATMAEFAERGGDPERGPCKNPMDALLWRAAREGEPWESPAGRGCWHECSAII
236 LTRIGTGLIDIQGGSDLIAPPHEYSAAHESVTGERRFAHYVHTGMIGDGHQNSKSRSR
241 TNRLGHSDTIOGCGSDIJFPKHETSSAAHBAAHGVEMARHYVAGMISDGGVKNSKSL

SUIT 5
-09-738-626-5170
Sequence 5170, Application US/09738626
Publication No. US20020197605A1
GENERAL INFORMATION:
APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT:

APPLICANT: ANDO, SEIICHI
 APPLICANT: HAYASHI, MIKIRO
 APPLICANT: OCHIAI, KEIKO
 APPLICANT: YOKOI, HARUHIKO
 APPLICANT: TATEISHI, NAOKO
 APPLICANT: SENOH, AKIHIRO
 APPLICANT: IKEDA, MASATO
 APPLICANT: OZAKI, AKIO
 TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
 FILE REFERENCE: 249-125
 CURRENT APPLICATION NUMBER: US/09/738,626
 CURRENT FILING DATE: 2000-12-18
 PRIOR APPLICATION NUMBER: JP 99/377484
 PRIOR FILING DATE: 1999-12-16
 PRIOR APPLICATION NUMBER: JP 00/159162
 PRIOR FILING DATE: 2000-04-07
 PRIOR APPLICATION NUMBER: JP 00/280988
 PRIOR FILING DATE: 2000-04-03
 NUMBER OF SEQ ID NOS: 7059
 SOFTWARE: PatentIn.ver. 3.0
 SEQ ID NO 5100
 LENGTH: 404
 TYPE: PRT
 ORGANISM: Corynebacterium glutamicum
 US-09-738-626-5170

Query	Match	Score	DB	Length	4;
2y	Best Local Similarity	57.84	Score 60.61;	DB 3;	Length 404;
2y	Matches	60.61	DB	3	7e -11.2;
2y	Conservative	45	DB	3	Mismatches 99;
2y	Matches	246	DB	3	Indels 16;
2y			Db		Gaps 4;
2y	19	LRFLPDSADROVAPVTPPDTAT	Db	3	- - - - - MYVCGITTPYDATHILGHAATVLTFLVHRLMLDAG 73
2y	3	LELFDTDQEVRLVETPAGSDTPVGMVCGITTPYDSTHILGHAATVLAFLDLYRILDND	Db	3	62
2y	74	HTVQYVONVTVDYDPLPERAERDGIDWTRLGDRETOQFREDMAALRVLPPHDYVAADDAI	Db	3	133
2y	63	HDHYVQNTVDYDPLPERAARDGVDRDGLTSQINLFRSDMEALSIPPQDYGAMESI	Db	3	122
2y	134	ASVYMEVKLLASGAATIVEDAEYPDVYFRADATAGQYESQYDRDTMLTFEAERGGPD	Db	3	193
2y	123	DEVMTYKTLDEGAATIVEDAEYPDVYASINATDKGYESQYDAAATMAEFFAERGPPE	Db	3	182
2y	194	RGKSDQDALLWRAEFGEPWPSPGRGPGWAVFCSAIALTRIGTGLD1QGGSDLI	Db	3	253
2y	183	RQKKNPMDALINRAAEGEPSSWESPPGAGPGRGWH1FCSATATNRQHSHFDIQGGSDLI	Db	3	242
2y	254	FPHHEVSAHAESVTGERRPARHYVHTGMIGMDGHKMSKSRGNLVLYSQLRAGVDPDSAI	Db	3	313
2y	243	FPHHERSAHAERAHGTERMAYHVHAGMISODGVKMSLGNLEFTSRLTAAHGHPGAI	Db	3	302
2y	314	RIGLFLSGHYREDFWSNEVLDENARLARWR_SATAPLEAPADTVIARVROYLADLDLT	Db	3	372
2y	303	RLGVFANHYRGNDMNEESLATAEORLTWREARATRNREDIAVEVQLRAHLSADLDLT	Db	3	362
2y	373	PKALAALDGWC-----TDALSYGGHDTESPRLVATVDALLGVDL	Db	3	412
2y	363	PGALAADVNDWAGIDTIDSREF----TEVGNIVVAAADDLGVQL	Db	3	404

RESULT 6
US-10-805-394-5170
Sequence 5170, Application US/10805394
Publication No. US2006228712A1
GENERAL INFORMATION:
APPLICANT: NAGAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIJI
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAOKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO

APPLICANT: OZAKI, AKIO
 TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
 FILE REFERENCE: 249-125
 CURRENT FILING DATE: 2004-03-12
 PRIOR APPLICATION NUMBER: US 10/805,394
 PRIOR FILING DATE: JP 99/377484
 PRIOR APPLICATION NUMBER: JP 00/159162
 PRIOR FILING DATE: 2000-04-07
 PRIOR APPLICATION NUMBER: JP 00/280588
 NUMBER OF SEQ ID NOS: 7059
 SOFTWARE: PatentIn ver. 3.0
 SEQ ID NO: 5170
 LENGTH: 404
 TYPE: PRT
 ORGANISM: Corynebacterium glutamicum
 US-10-805-394-5170

Query Match 57.8%; Score 1269; DB 5; Length 404;
 Best Local Similarity 60.6%; Pred. No. 3.7e-112; Indels 16; Gaps 4;
 Matches 246; Conservative 45; Mismatches 99; Gaps 4;

Qy 19 LRLPDSADQRQRVPRTPFGPTAT---MYVCGITPTYDATHLGHAAATLTLTEFLVHRLWLDAG 73
 Db 3 LELFDTAQEVRLVTPPAGSDTPVGMVCGITPTYDSTLGHAAATLAFDLIYRILDDND 62
 Qy 74 HTVQTVQNVNTVDDPFLERAFERDGDWRTLSDRETFOLFREMAAFLVLPHDYVATDAI 133
 Db 63 HDVHVTQNTITVDDPFLERAFRDGDWRTDQTSQINLFRSDMEALSIIPIPVDYGAESI 122
 Qy 134 ABVYVMEVKLLASGAAVYIVEDAEYPDVYFPRADATAGFYZECSGYDRTMLTFAERGDPD 193
 Db 123 DEVIEAVKTYLDEGAAVYIVEDAEYPDVYAS.NATDKFGEYNYDATTMAEFLFAERGDPB 182
 Qy 194 RPKGSQDLDALLWARPGEWSWPSPGCRGPGRGPGRWVCSAALTRIGTGLDIOGGSIDL 253
 Db 183 RPKKNPMDALLWARPGEWSWPFGAGRPGRWVTECSAATNLGHSPDIOGGSIDL 242
 Qy 254 FPHHEYSAAHAEASVTEERRFARHYVHTGMIGDGHMWSKIGNLVLSQRLAQGVDSA 313
 Db 243 FPHHEYSAAHAEAAHGVMAHGIVHAGMISODGVWSKISLGNLFVSRLTAGHFGCA 302
 Qy 314 RLGLFSGHYREDRFSNEVLDDEANARLARWR-SATALPEADATVIARYQQLADDLT 372
 Db 303 RLGVFANHYGRDWNVAESLATAEQRLATWREAAATNREDAVVEQRAHLSADDLT 362
 Qy 373 PKALAALDGWC----TDALSYGGHDTESPRLVATTVDALLGVDL 412
 Db 363 PGALLAVIDNWAAGIDTTDSKEP---TEVGNIVVAAIDALLGVQL 404

RESULT 7
 US-10-511-244-6
 Sequence 6, Application US/10511244
 Publication No. US20060183116A1
 GENERAL INFORMATION:
 APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
 APPLICANT: SAREEN, Dipti
 APPLICANT: NEWTON, Gerald L.
 APPLICANT: FAHEY, Robert C.
 APPLICANT: BUCHMEIER, Nancy
 APPLICANT: STEFFEK, Micah
 APPLICANT: AV-GAY, Yosef
 APPLICANT: RAWAT, Mamtia
 APPLICANT: KOLEIDIN, Teresa
 TITLE OF INVENTION: METHODS OF USE OF THE ENZYMES OF MYCOTHIOL SYNTHESIS
 FILE REFERENCE: USCD1420-1
 CURRENT APPLICATION NUMBER: US/10/511-244
 PRIOR FILING DATE: 2004-10-13
 PRIOR APPLICATION NUMBER: PCT/US 03/11539
 PRIOR FILING DATE: 2003-04-15
 PRIOR APPLICATION NUMBER: US 60/373,890
 PRIOR FILING DATE: 2002-04-19
 PRIOR APPLICATION NUMBER: US 60/373,079
 NUMBER OF SEQ ID NOS: 49
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 5

Query Match 56.2%; Score 1232.5; DB 5; Length 409;
 Best Local Similarity 57.1%; Pred. No. 1.2e-108; Indels 5; Gaps 2;
 Matches 236; Conservative 54; Mismatches 118; Gaps 2;

Qy 1 MQWSWAPAPIPVPGPGRPAFLFDSARQVRPVTGPTATMYVCGITPTYDATHLGHAAATL 60
 Db 1 MHAWPSEVPALPGQGRDLRHDATGGPVTLDPGVAVRIVYVGTPTYDATHLGHAAATN 60
 Qy 61 TFDLVRHLWLDAGHTYQYQVQNTVDQDPLFERAERGDSIDDWRTLGDRTQFLFREDMAALRV 120
 Db 61 AFDLVQRVWLDLKRQHVQNVTDVDDPLLEAVRDGVWDTALQAETALFREDMALRV 120
 Qy 121 LPFHDTYVATDAIAEYVEMVEKLLASGAAVYIVEDAEYPDVYFPRADATAGFYESGYDRDT 180
 Db 121 LPQHQHITGAVAIPGIVPLVERLDRDAAAYLEG---DYESVEADPHFGVSHLDAT 176
 Qy 181 MTLTFLERGGDIDRPGKSDQDALLWRAERGCPSPN-SPPRGRGPGRWVCSAALTRI 239
 Db 177 MRLLSAAERGGDIDRPGKKNPLDPMLWAAREGEPNSDGGTLGRGRGPWHEICVAILDHL 236
 Qy 240 GTGLDIOGGGSDPLIPPHHEYSAAHAEASVTEERRFARHYVHTGMIGDGHMWSKSGRGNIVL 299
 Db 237 GMGFDQGGGSDPLAFPHMGAHQAQLTGPMAKAVHAGRVGVLDEKMSKGNLV 296
 Qy 300 VSQRLAQGVDSAIRGLFSGHYREDRFSNEVLDDEANARLARWSATLPEADATDV 359
 Db 297 VSQRLREGVDPAPRLTLLAHYRSDEWTDQYLODALARLDRWRAAVSRPDPGPPEALV 356
 RESULT 8
 US-10-511-244-5
 Sequence 5, Application US/10511244
 Publication No. US20060183116A1
 GENERAL INFORMATION:
 APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
 APPLICANT: THE UNIVERSITY OF BRITISH COLUMBIA
 APPLICANT: SAREEN, Dipti
 APPLICANT: NEWTON, Gerald L.
 APPLICANT: FAHEY, Robert C.
 APPLICANT: BUCHMEIER, Nancy
 APPLICANT: STEFFEK, Micah
 APPLICANT: AV-GAY, Yosef
 APPLICANT: RAWAT, Mamtia
 APPLICANT: KOLEIDIN, Teresa
 TITLE OF INVENTION: METHODS OF USE OF THE ENZYMES OF MYCOTHIOL SYNTHESIS
 CURRENT APPLICATION NUMBER: US/10/511-244
 PRIOR FILING DATE: 2004-10-13
 PRIOR APPLICATION NUMBER: PCT/US 03/11539
 PRIOR FILING DATE: 2003-04-15
 PRIOR APPLICATION NUMBER: US 60/373,890
 PRIOR FILING DATE: 2002-04-19
 PRIOR APPLICATION NUMBER: US 60/373,079
 NUMBER OF SEQ ID NOS: 49
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 5

Qy 299 LVSQQLPAGQVDPSSAIRGLGLFSGHYREDRFSNEVLDERANARLARWRSATALPEAPADTDV 358
 Qy 301 LVSALRAQDVPSAVERGLLAGHYADRFSQSVLDEATRLHRWRTATLPAAGPAAVDV 360

Db 359 IARVQYLAADDLDPKALALAGQWCTDALSXGQHDTESPRVATTVDALLGVDL 412
 Db 361 VARVRYLAADDLDPKALALDGWVTDVAEYCGSHDAGAPKLVATAIDALLGVDL 414

RESULT 3
 ARG91416
 ID ARG91416 standard; protein; 404 AA.
 XX
 AC ARG91416;
 XX DT 15-JUN-2007 (revised)
 XX DT 26-SEP-2001 (first entry)
 C glutamicum protein fragment SEQ ID NO: 5170.
 XX
 Coryneform bacterium; amino acid synthesis; vitamin; saccharide;
 organic acid synthesis; BOND_Pc; Cysteinyl-tRNA synthetase;
 Cysteinyl-tRNA synthetase [Corynebacterium glutamicum ATCC 13032]; GO166;
 GO4812; GO4817; GO5524; GO6412; GO6423; GO16874.
 XX
 Corynebacterium glutamicum.
 XX EP1108790-A2.
 XX 20-JUN-2001.
 XX PP 18-DEC-2000; 2000EP-00127688.
 XX PR 16-DEC-1999; 99JP-00377484.
 PR 07-APR-2000; 2000JP-00159162.
 PR 03-AUG-2000; 2000JP-00280588.
 XX PA (KYOW) KYOWA HAKKO KOGYO KK.
 XX PI Nakagawa S, Mizoguchi H, Ando S, Hayashi M, Ochiai K, Yokoi H;
 PI Tateishi N, Sanoh A, Ikeda M, Ozaki A;
 XX WPI; 2001-376931/40.
 DR N-PSDB; AAH66635.
 DR PC:NCBI; 9161216674.
 DR PC:SWISSPROT; Q8NC4.
 XX
 Novel polynucleotides derived from Coryneform bacteria, for identifying
 mutation point of a gene, measuring expression of a gene, analyzing
 expression profile or pattern of a gene and identifying homologous gene.

Claim 17; SEQ ID NO 5170; 246pp + Sequence Listing; English.

The present invention provides a number of nucleotide and protein sequences from the Coryneform bacterium Corynebacterium Glutamicum. These are useful for identifying the mutation point of a gene derived from a mutant of coryneform bacterium, measuring expression amount and analysing the expression profile or expression pattern of a gene derived from Coryneform bacterium, and identifying a homologue of a gene derived from coryneform bacterium. Coryneform bacteria are useful for producing amino acids, nucleic acids, vitamins, saccharides and organic acids, particularly L-lysine. The present sequence is a protein described in the exemplification of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the European Patent Office

Revised record issued on 15-JUN-2007 : Enhanced with precomputed information from BOND.

XX SQ Sequence 404 AA;
 XX Query Match Similarity 57.8%; Score 1269; DB 4; Length 404;
 XX Best Local Similarity 60.6%; Pred. No. 9.6e-119;

Matches 246; Conservative 45; Mismatches 99; Indels 16; Gaps 4;
 19 LRLFDSDRQVRPVTPGPAT-----MTCGIRTPYDATLGHAXTYLTFDLVHRLWLDAG 73
 3 LEIFDTAQEVRLVETPPAGSDTPVGMVCGIRTPYDSTLGHAXTYLAFPLIYRLLND 62

Db 74 HTVQYQVNTIDYDDPLPFFERAERDGIDWRTLGDRETOLFRDMALRVLPPHDVYATDAI 133
 63 HDVHVQNTIDYDDPLPFFERAARDQDWLGTSONLFRSDMEALSIIPPKDQYAESI 122

Qy 134 AEVVEVEKLLASGAYIVEDAEVDPVIFRADATAQFGYESGYDFTMLTFAEGGDPD 193
 Db 123 DEVEMVKTLLDEGAYIVEDAEVDPYVASINATDKFGESENNTDAATMAEFFAEGGDP 182

Qy 194 RPKSKDOLDLWLRWAAERPEPSWSPFGRGRPMWHECSAIALTRIGTGLDIOGGSDLI 253
 Db 183 RPKKNPMDLWLRARSEGPSPSPFGRGRPMWHECSAIALTRIGTGLDIOGGSDLI 242

Qy 254 PPHHEYSAHAESVTYGERPARYHTGMIGDCHRMKSRSRGNLTVLSQLRAQGVDPSAI 313
 Db 243 PPHHEPSAHAEAQAHGVERMAMKHYHAGMSQDCVYKMSLGNIEFVSRSLTAAGHGPAGI 302

Qy 314 RLGFLSGHRYREDFEWNSNEVLDLEANARLARWR-SATAPLPAPDADTVIARVQYLLDDLT 372
 Db 303 RLGYFANHYRGNDWNASLATEQRQLATWREARAAATREDIAVVEQLRAHLSADLT 362

Qy 373 PKALAALDGCWC-----TDALSYGGHDTESPRLVATVYDALLGVDL 412
 Db 363 PGALAVDNWAAGIDTTDSKEP----TEVGNTVVAATDALLGVQL 404

RESULT 4
 ABM79603
 ID ABM79603 standard; protein; 409 AA.
 XX AC ABM79603;
 XX DT 15-JUN-2007 (revised)
 DT 22-APR-2004 (first entry)

XX DE S coelicolor MshC protein.

XX Enzyme; mycothiol synthesis; MshC; MshD; MshA; infection;
 cysteine:glucosaminyl inositol ligase; antibacterial;
 acetyl-CoA:Cys-GlcN-1s acetyltransferase; BOND_PC;

XX KW putative cysteinyl-tRNA synthetase; [Streptomyces coelicolor A3 (2)];
 KW SC152; 05C; cysteinyl-tRNA synthetase;
 KW cysteinyl-tRNA synthetase [Streptomyces coelicolor A3 (2)]; cyBS; GO166;
 KW GO4812; GO4817; GO5524; GO6412; GO6423; GO16874.

XX PA (REGC) UNIV CALIFORNIA.
 XX WO2003089585-A2.
 XX 30-OCT-2003.

XX PP 15-APR-2003; 2003WO-US011539.

XX PR 15-APR-2002; 2002US-0373079P.
 PR 19-APR-2002; 2002US-0373890P.

XX PA (YBFR-) UNIV BRITISH COLUMBIA.

XX Saren D, Newton GL, Fahey RC, Buchmeier N, Steffek M, Av-Gay Y;
 PI PI Rawat M, Kolekin T;
 XX DR WPI; 2004-042359/04.
 DR PC:NCBI; 9161216726.
 DR PC:SWISSPROT; Q8ADA4.
 XX PR Identifying inhibitors of mycothiol biosynthesis, useful as antibacterial